

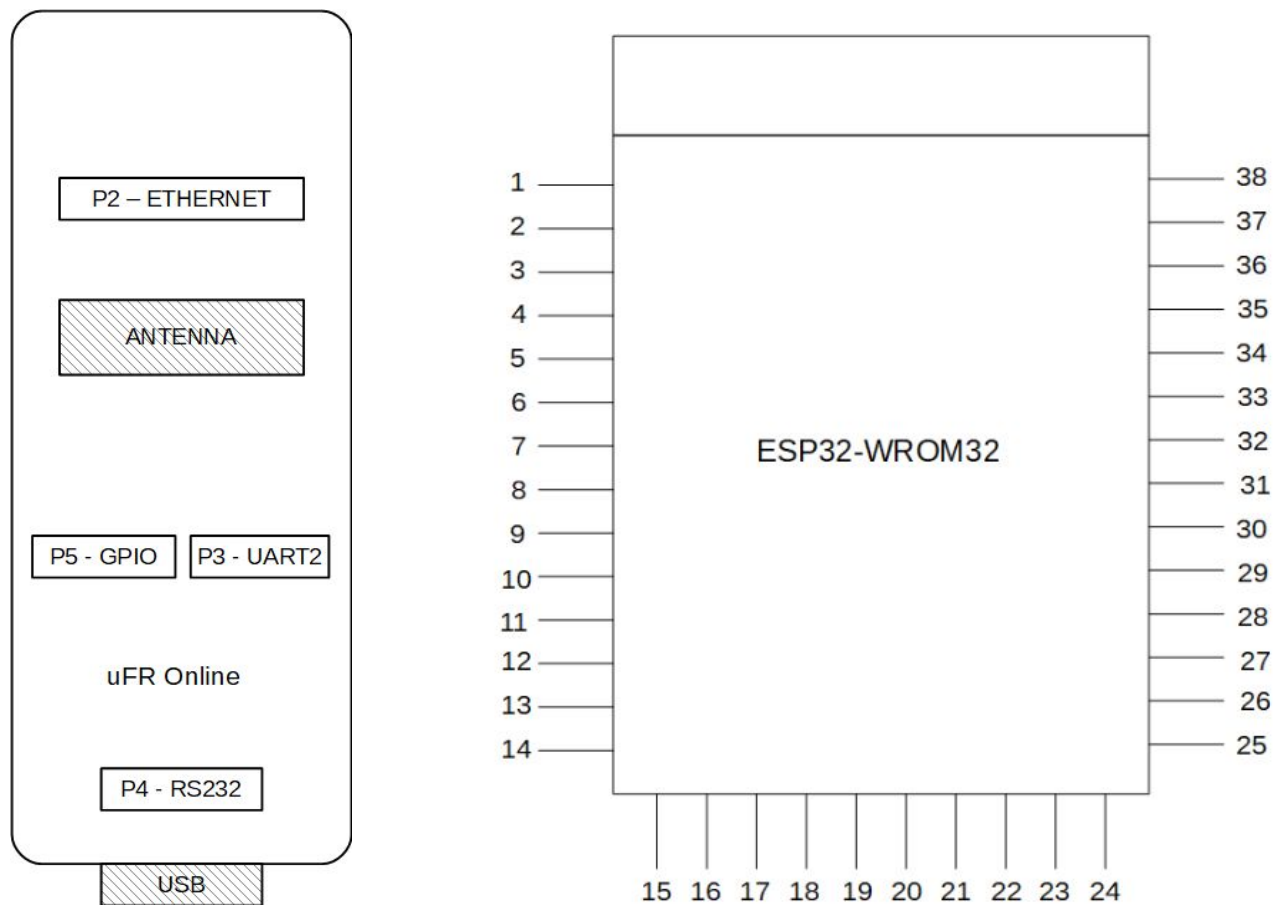
uFR Online pins and connectors description

Version 1.0

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Connectors location and ESP32 pinout



Available pins

In table below is shown list of available pins on uFR Online.

User available uFR Online pins		
ESP32 Pin number	GPIO	Description
4	GPIO36	External input pin 1
5	GPIO39	External input pin 2
6	GPIO34	Connected to uFR reader TX
7	GPIO35	Connected to external UART TX
8	GPIO32	Connected to uFR reader reset
9	GPIO33	External input/output pin 3
13	GPIO13	Connected to internal RGB LED
24	GPIO2	External output pin 6
27	GPIO16	Connected to uFR reader RX
29	GPIO5	External input/output pin 4
30	GPIO18	External input/output pin 5
34	GPIO3	Connected to Serial to USB FTDI RX
35	GPIO1	Connected to Serial to USB FTDI TX
37	GPIO23	Connected to external UART RX

User programmable pins

In table below is shown list of user programmable pins on OEM unlocked uFR Online.

UART 1 - Internally connected to uFR Reader		
ESP32 Pin number	GPIO	Description
6	GPIO34	Connected to uFR Reader TX
8	GPIO32	Connected to uFR Reader reset
27	GPIO16	Connected to uFR reader RX

UART 2 - connected external P3 connector			
P3 Pin number	ESP32 Pin number	GPIO	Description
1	X	X	Connected to 3.3V power supply
2	7	GPIO35	Connected to external UART TX
3	37	GPIO23	Connected to external UART RX
4	8	GPIO32	Connected to uFR Reader reset
5	X	X	Connected to GND

Input/Output pins - connected external P5 connector			
P5 Pin number	ESP32 Pin number	GPIO	Description
1	4	GPIO36	External input pin 1
2	5	GPIO39	External input pin 2
3	9	GPIO33	External input/output pin 3
4	29	GPIO5	External input/output pin 4
5	30	GPIO18	External input/output pin 5
6	24	GPIO2	External output pin 6

Non-programmable pins

In table below is shown list of pins that are internally connected and not user programmable pins on OEM unlocked uFR Online.

External P4 connector. Only available on RS232 version without USB connector	
P4 Pin number	Description
1	External 5V power supply
2	UART TX Pin
3	UART RX Pin
4	UART RTS Pin
5	GND
6	UART DTR Pin

External P2 connector. Only available on Ethernet version with dedicated LAN adapter.

Revision history

Date	Version	Comment
2019-07-15	1.0	Base document